

Amendments to the Drawings:

New formal drawings (Figures 1-37) have been submitted herewith that comply with the Official Draftsperson's instructions. Specifically, (i) any erasures, alterations, overwritings, interlineations, folds and copy machine marks in Figure 18 have been removed to comply with 37 C.F.R. § 1.84(e); (ii) views have been labeled separately and properly in Figures 13A-14D and Figures 29A-29E to comply with 37 C.F.R. § 1.84(h); (iii) lines, numbers and letters have been modified to be uniformly thickened and well defined, clean, durable and black in Figures 1-10, 24A, 25-33F and 36A to comply with 37 C.F.R. § 1.84(i); and (iv) numbers and reference characters have been modified to be plain and legible in Figures 1-10, 16, 22A-D and 25-33F and Figure legends have been modified in Figures 1-10 and 11-14B to comply with 37 C.F.R. § 1.84(p).

Attachment: Replacement Sheet (Appendix A)

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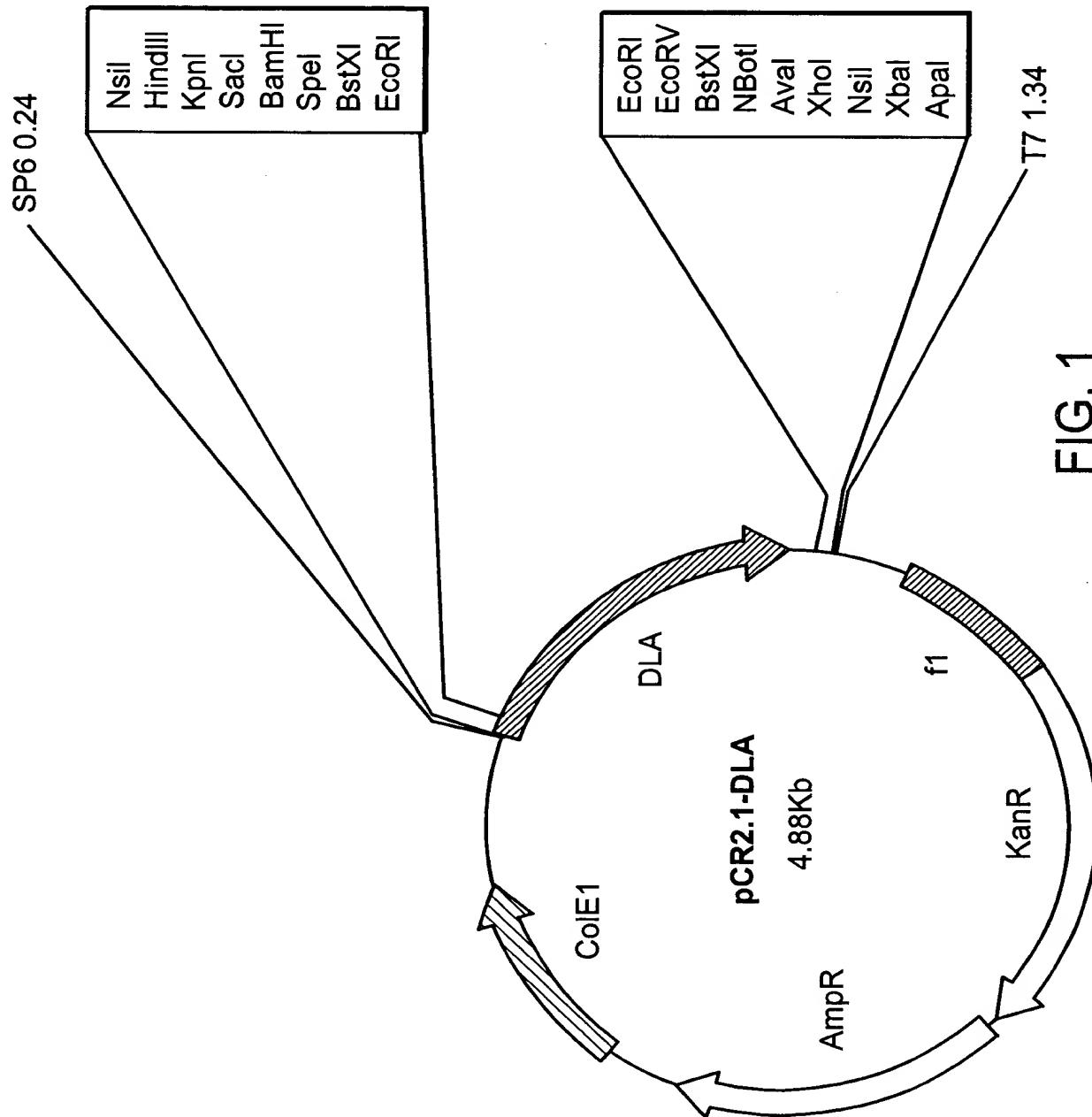


FIG. 1



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B-Subunit

43 LYSAPLRLWEDSAVLTSFDPTIY..IFTNYTSRIADGLA.FIAPPDSVIS 89
 51 LYSAPLRLWEDSAVLTSFDTIINFEISTPYTSRIADGLAIFIAPPDSVIS 100

90 YHGGFLGLFPNAAESG
 91 YHGGFLGLPEPANNLNNSTSEN 123

α -Subunit

Gowda	1IAESNVVAVEFDTDYLNPDYGDPNYIHIGIDVNSIRSKVTASWDDW	45
FRIL	1	QTTTKAASSNVVAVEFDT.YLNPDYGDPNYIHIGIDVNSIRSKVTAKWDW	49
	46QNGKIAATAHISYNSVSKRLSVTTYYPGRGKPATSYDIELHTVLPEWVRVG	95
	50	QNGKIAATAHISYNSVSKRLSVTSYAGSKPATLSYDIELHTVLPEWVRVG	99
	96LSASTGQNTERNTVHSWSFTSSLWTNVAKVGVASISG.....	131
	100	LSASTGQDKERNTVHSWSFTSSLWTNVAKKENENKYITRGVL**YMCIND	144

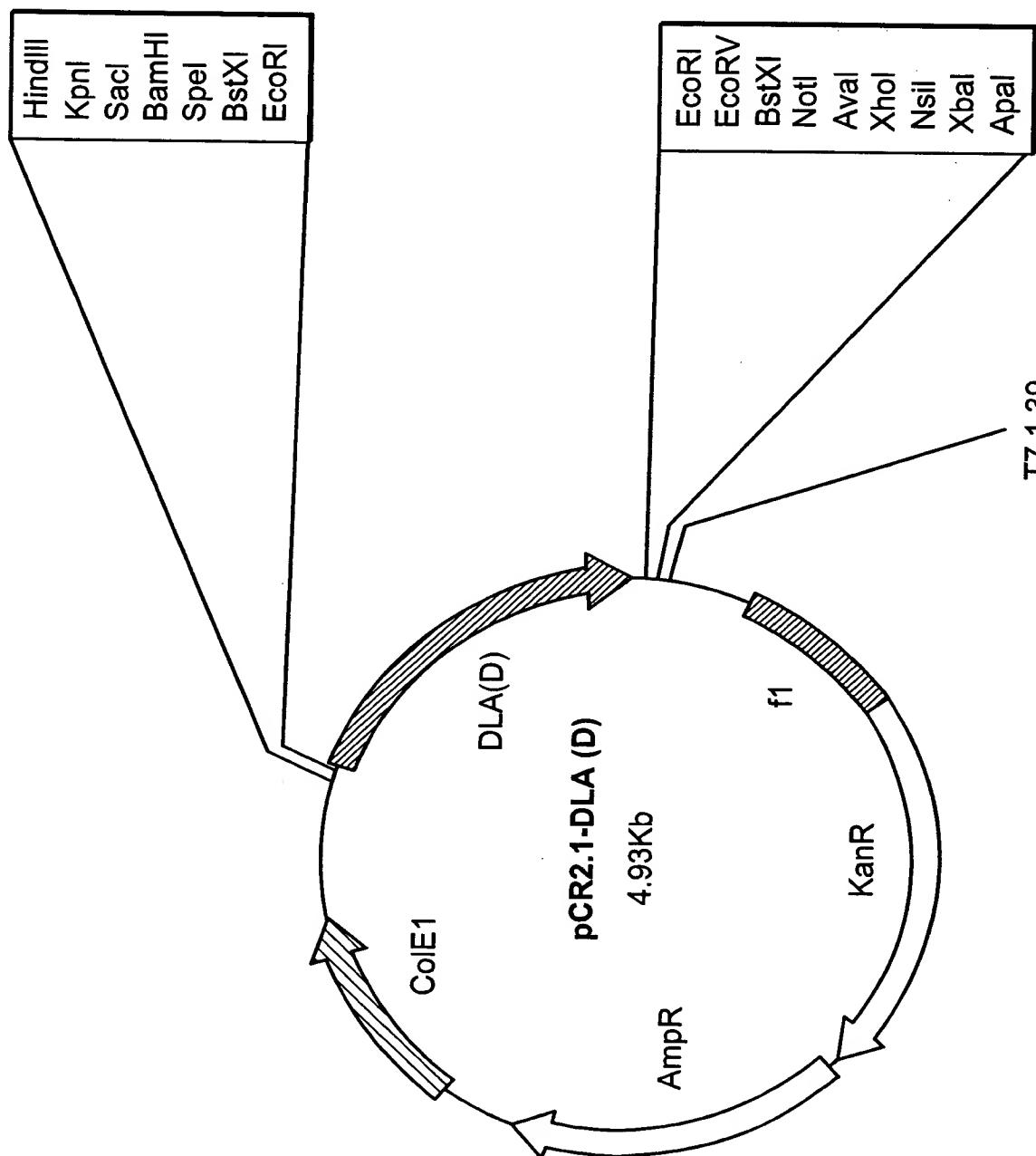
FIG. 2

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FIG. 3

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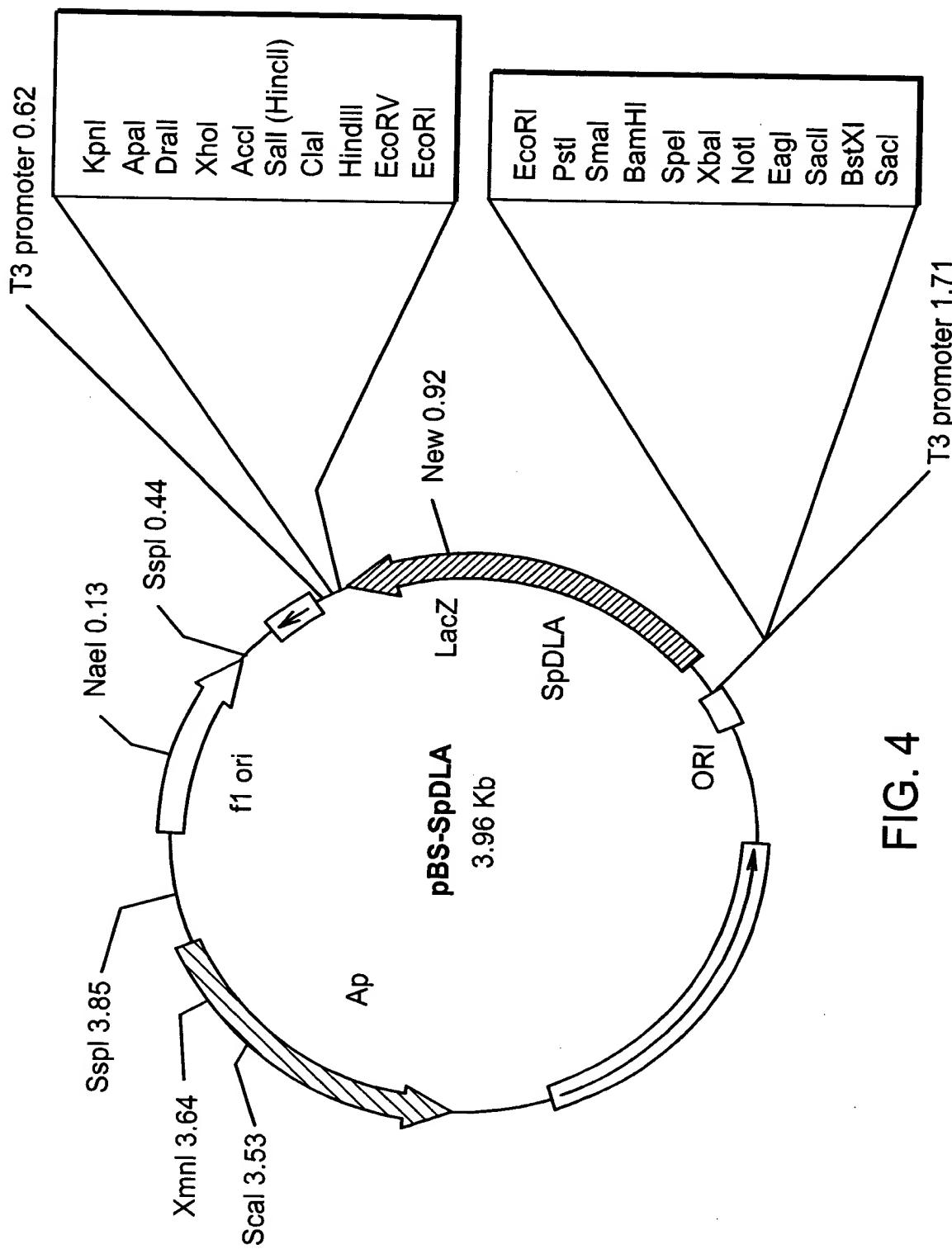


FIG. 4



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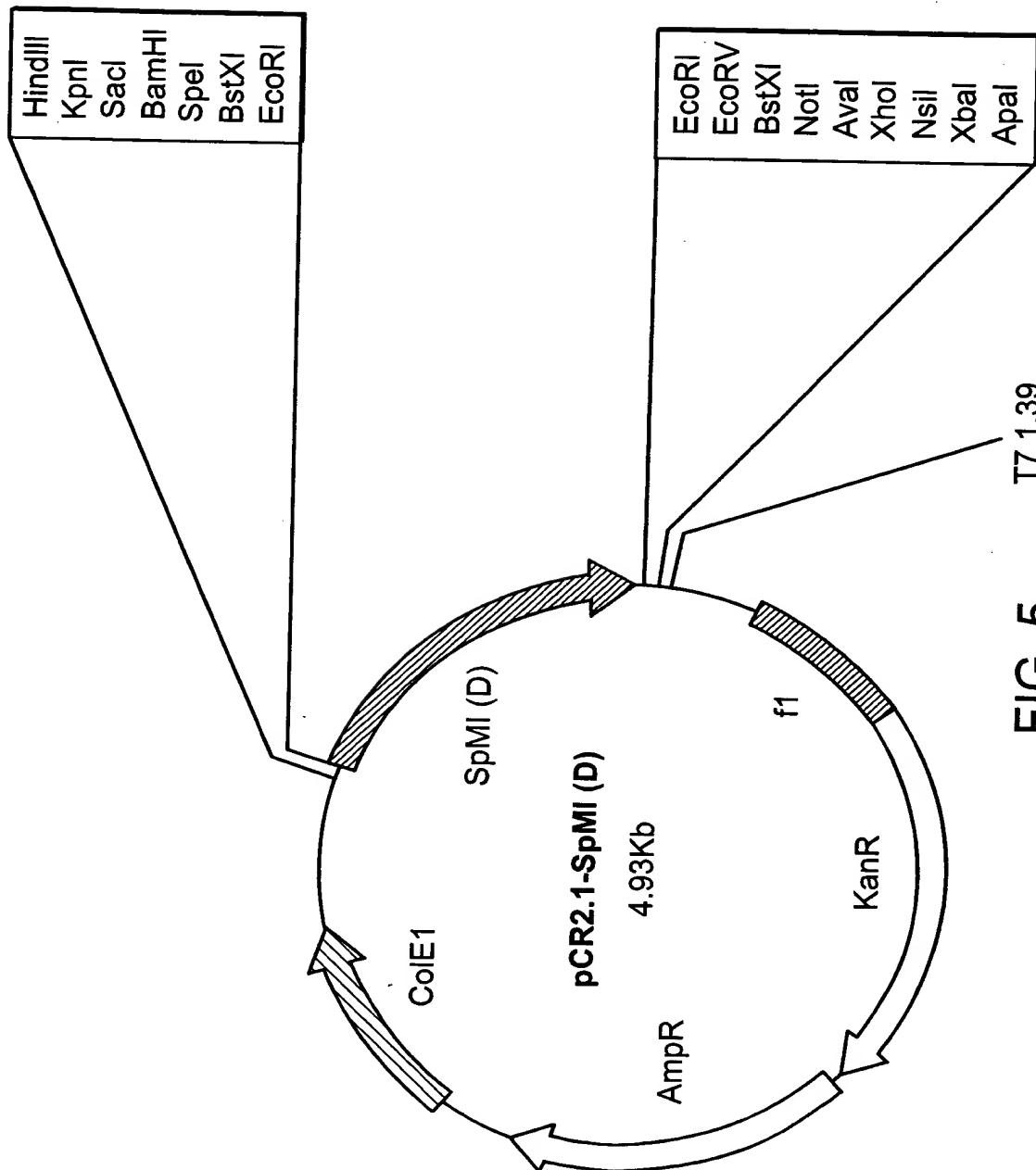


FIG. 5

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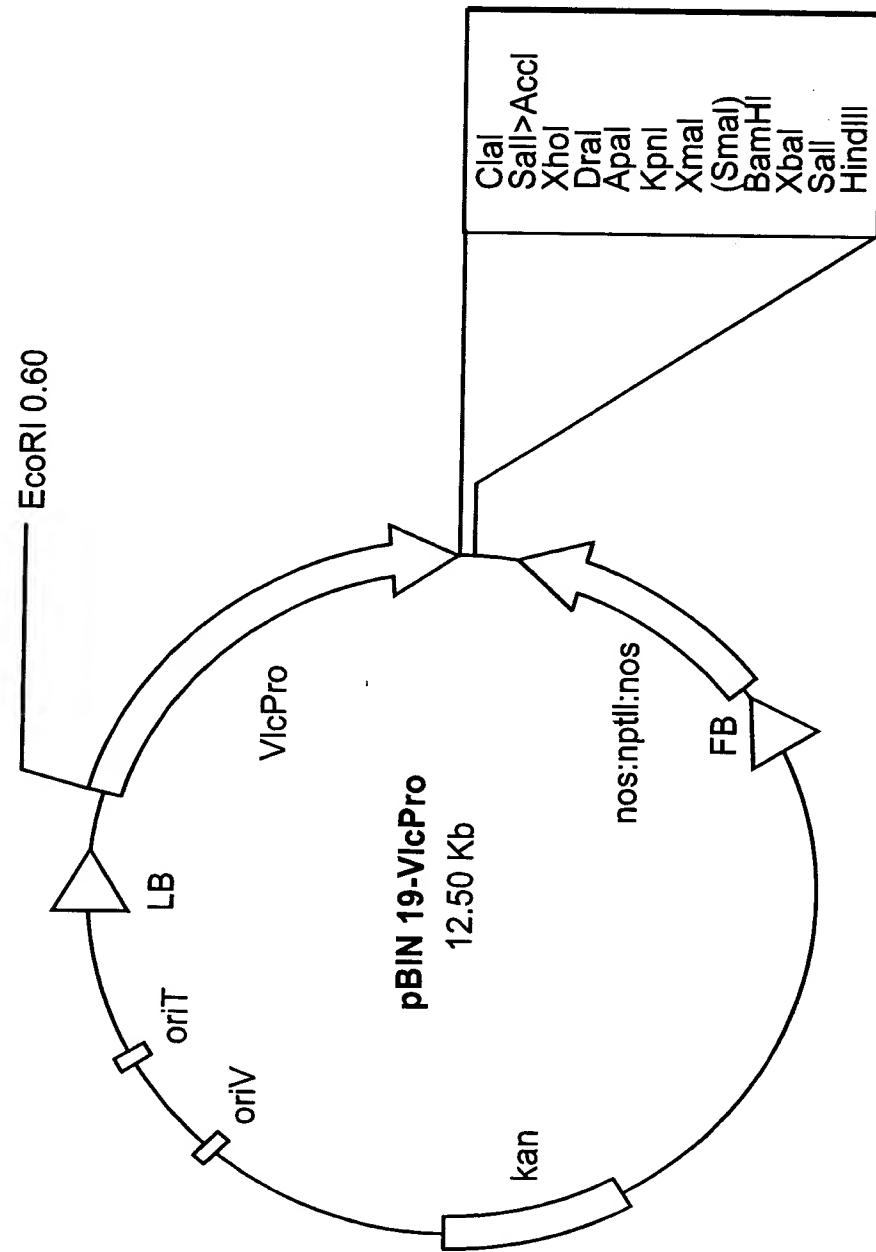


FIG. 6

01 P.E.
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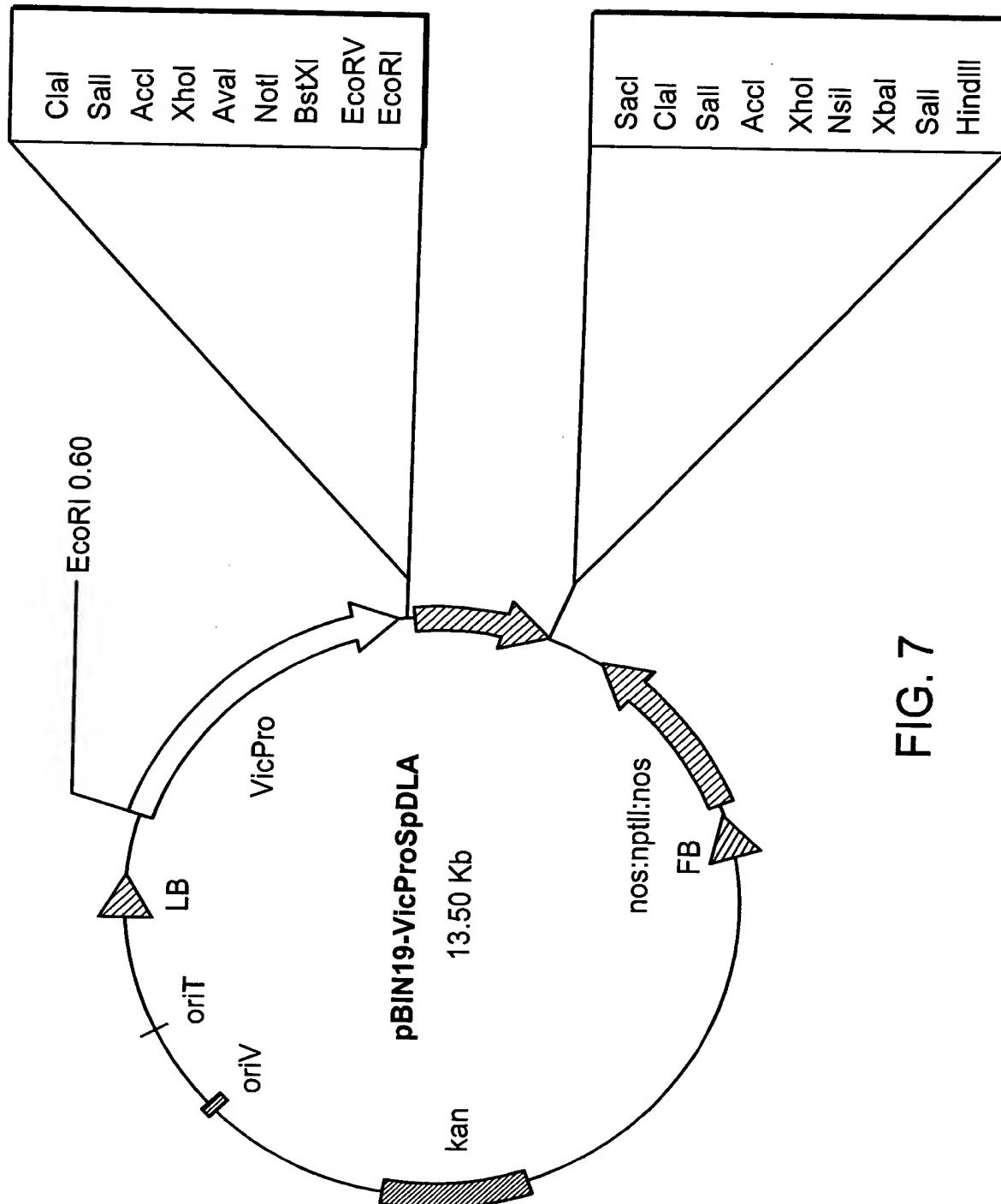


FIG. 7



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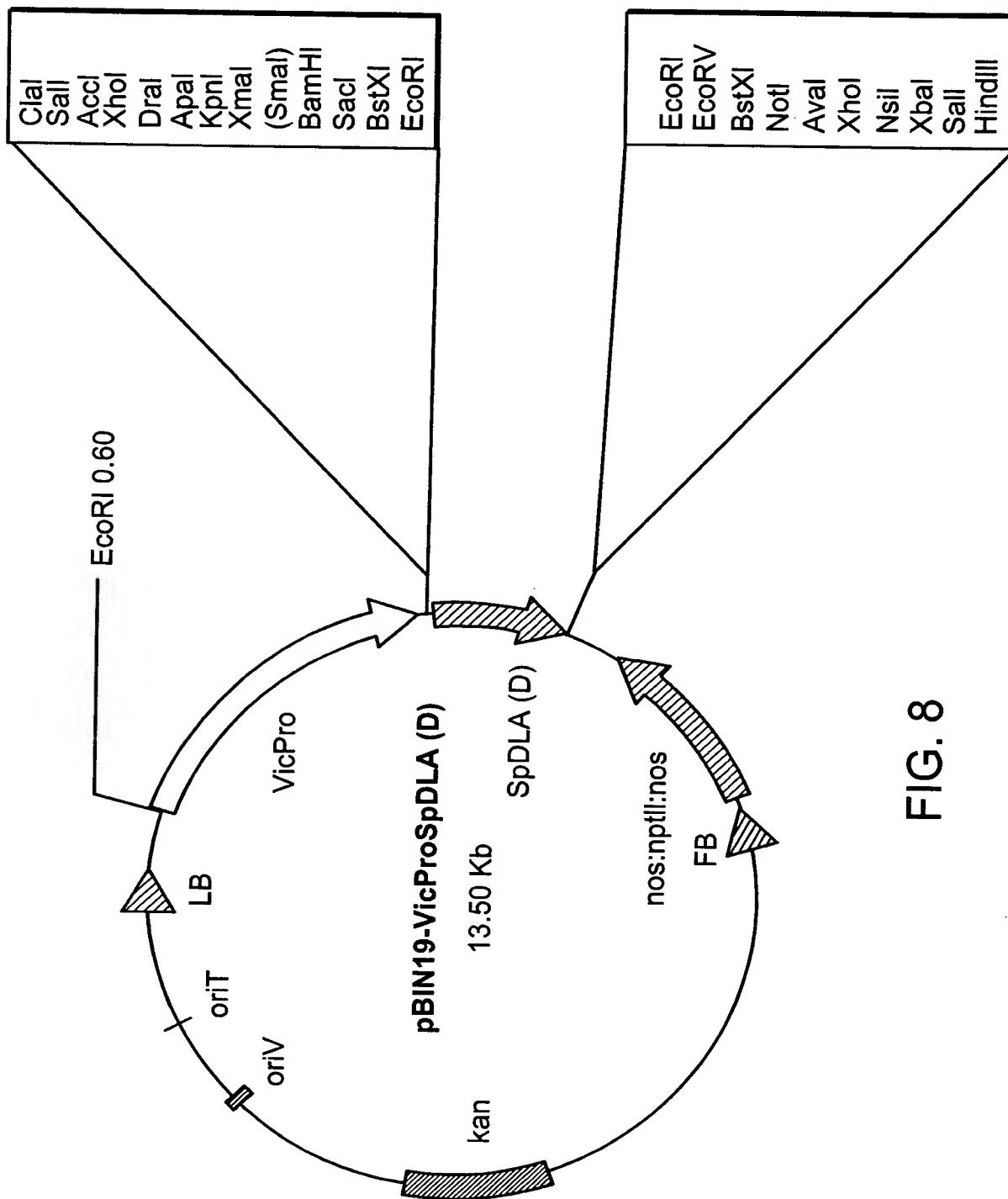


FIG. 8

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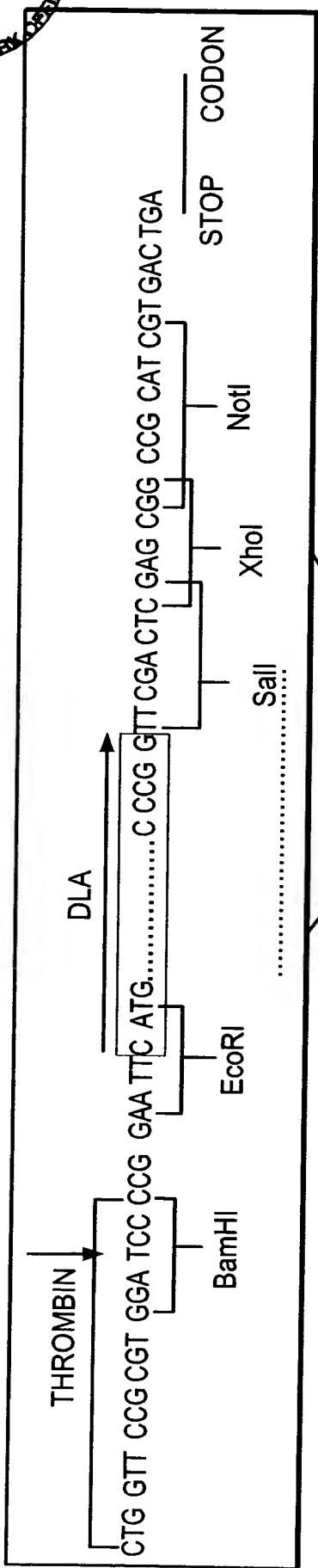


FIG. 9

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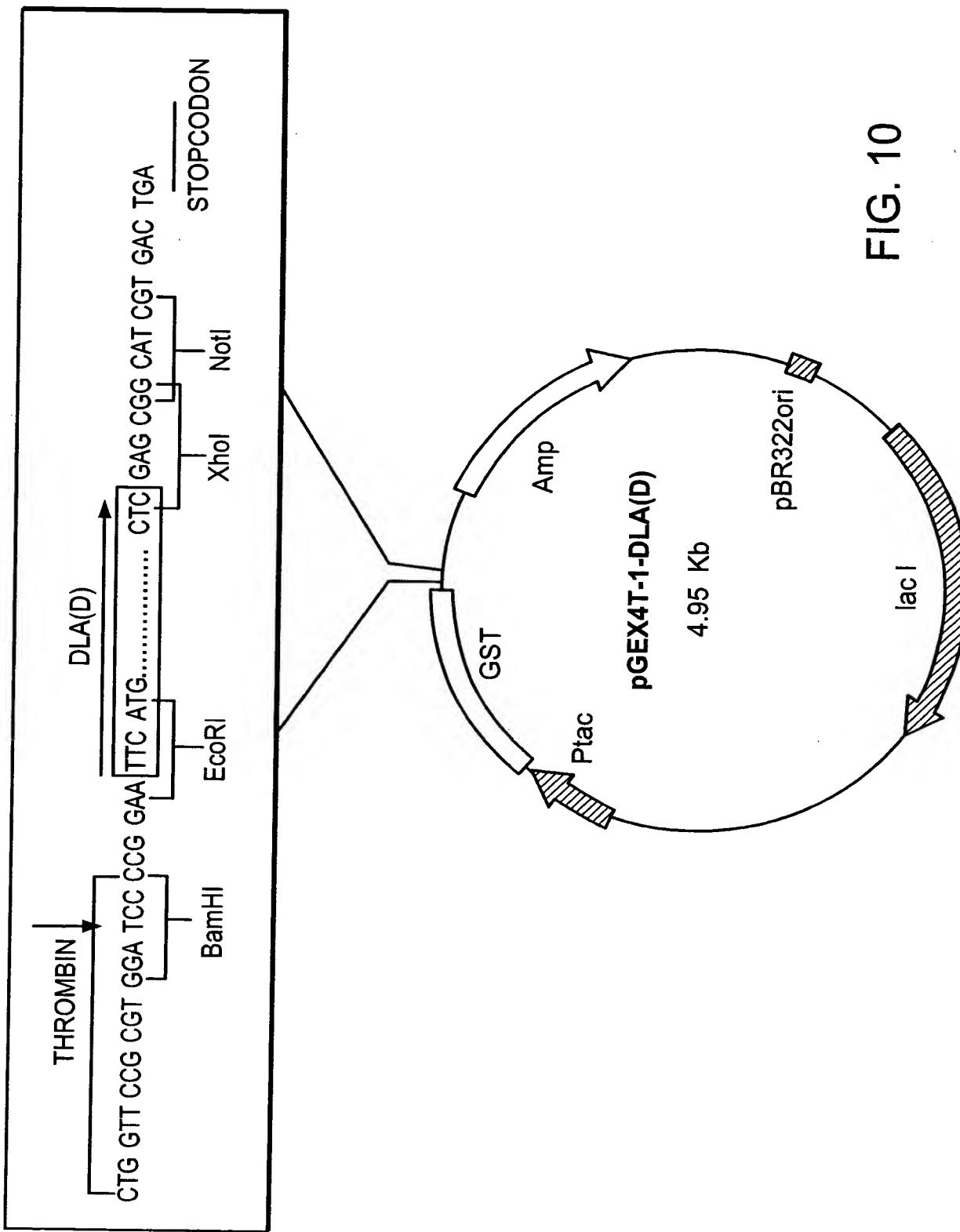
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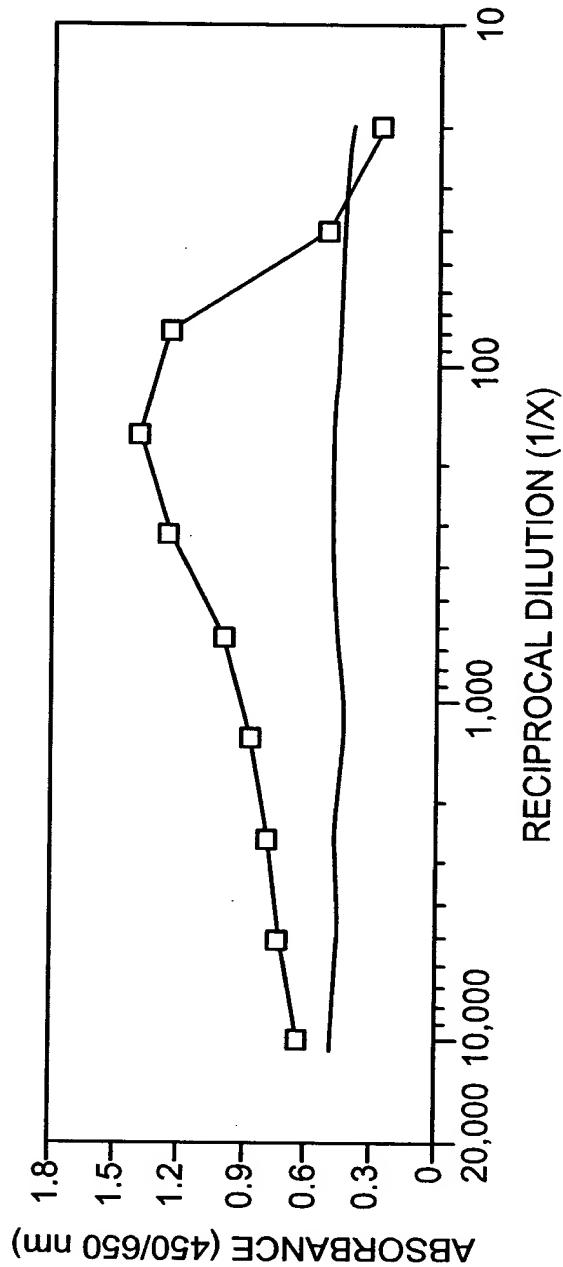


FIG. 13A

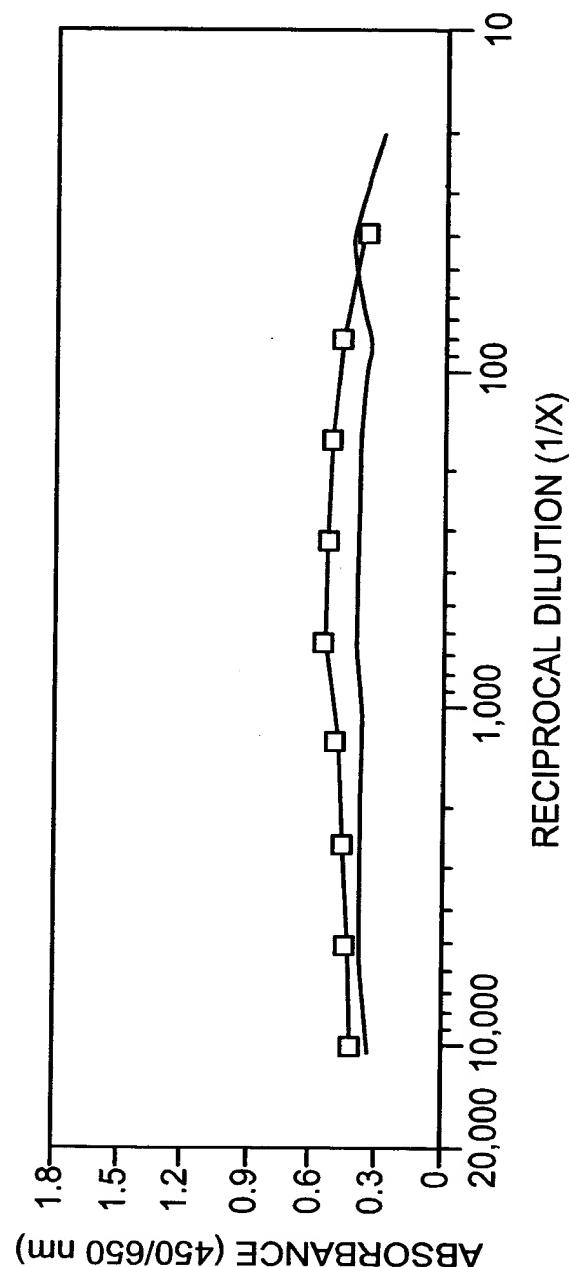


FIG. 13B

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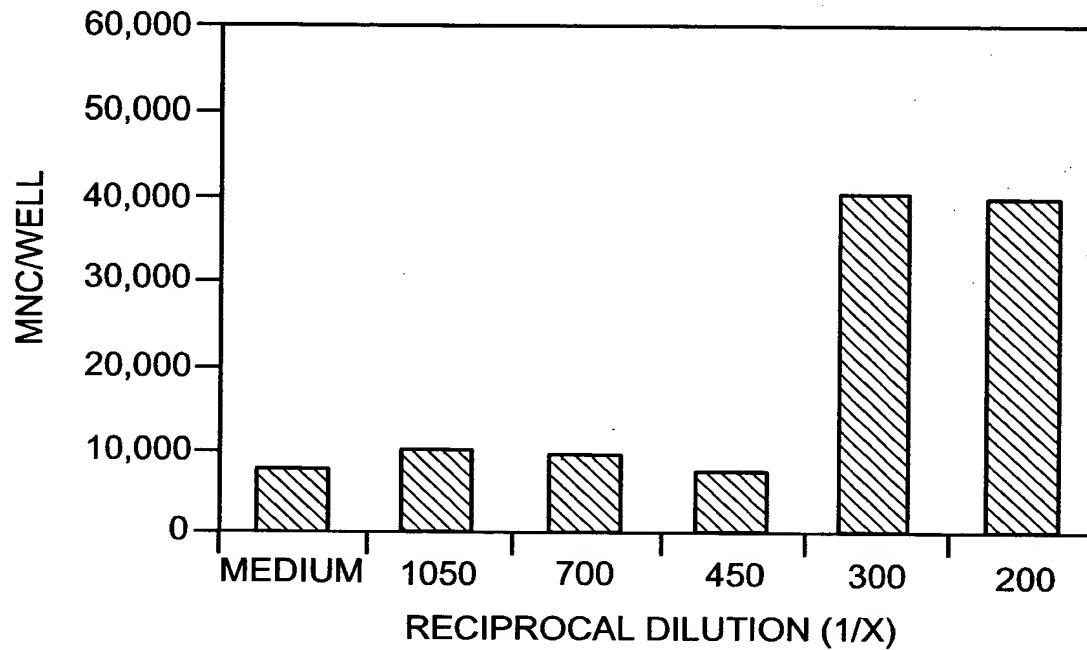


FIG. 14A

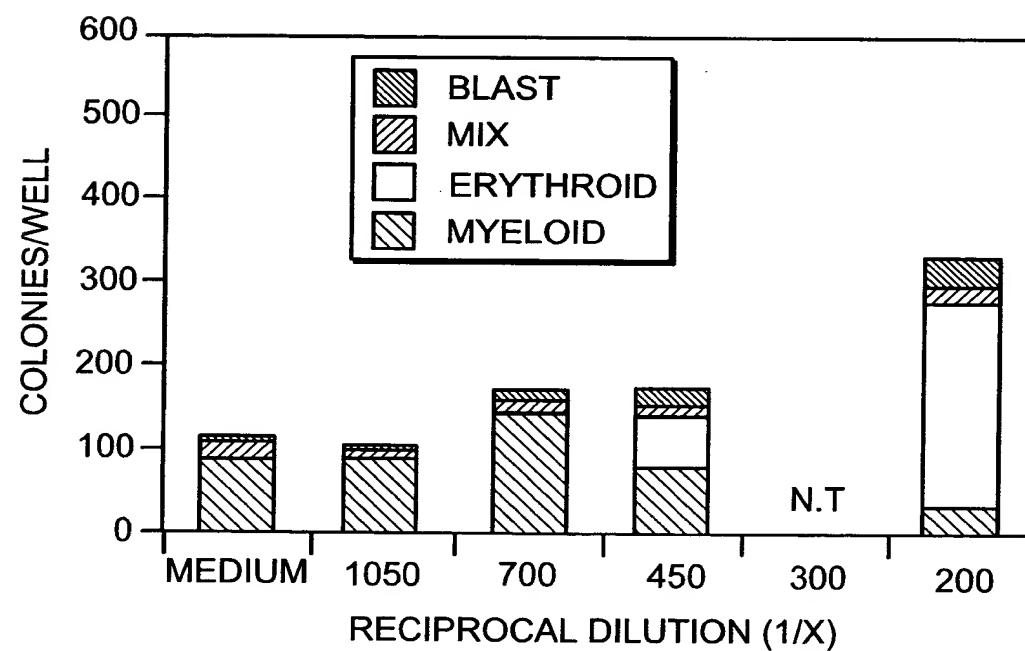


FIG. 14B

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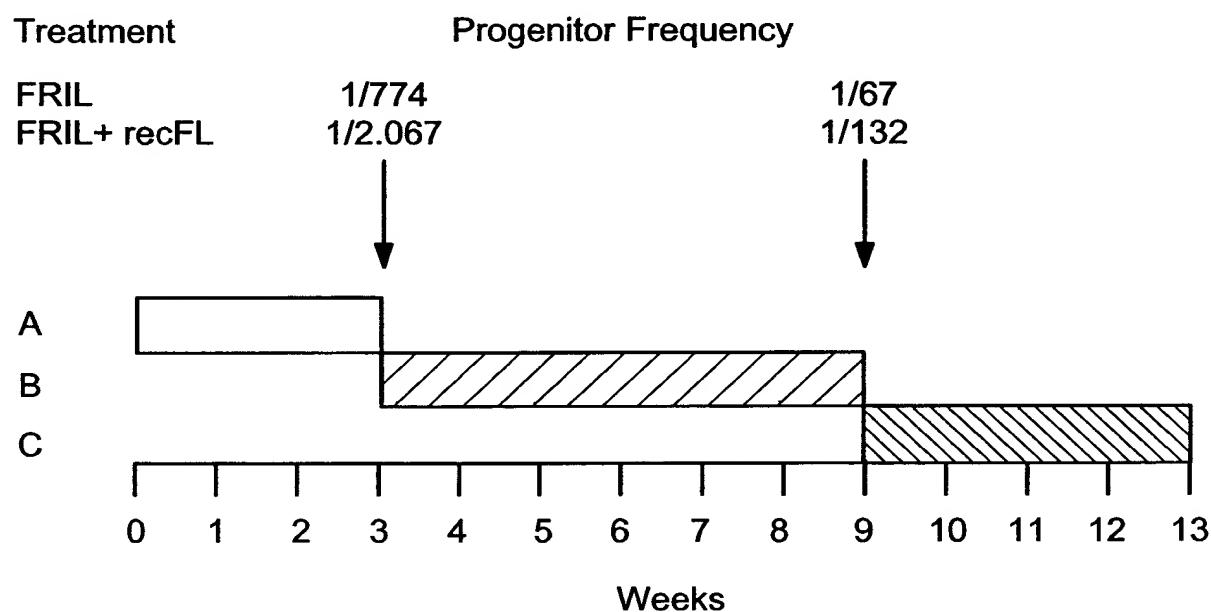


FIG. 16



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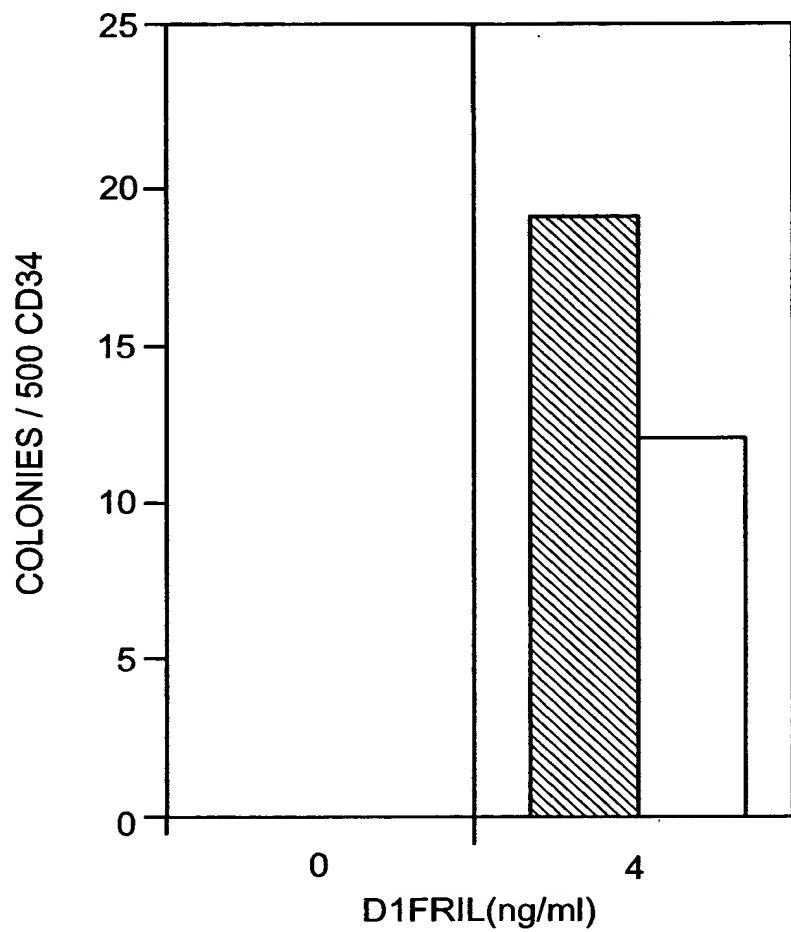


FIG. 18



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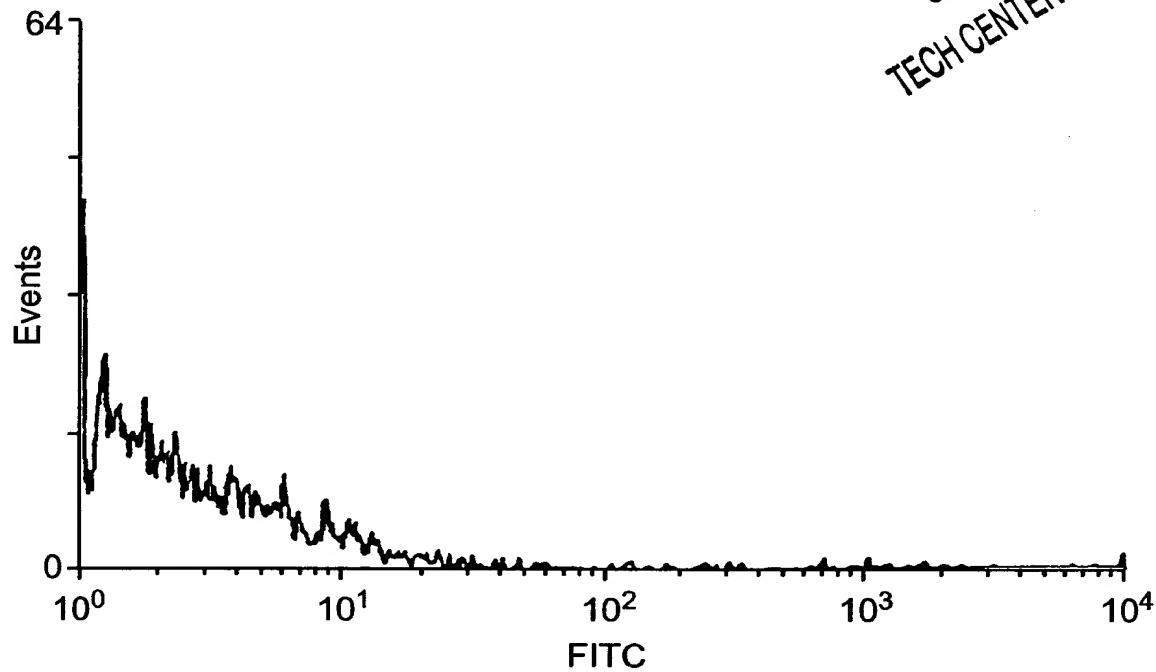


FIG. 22A

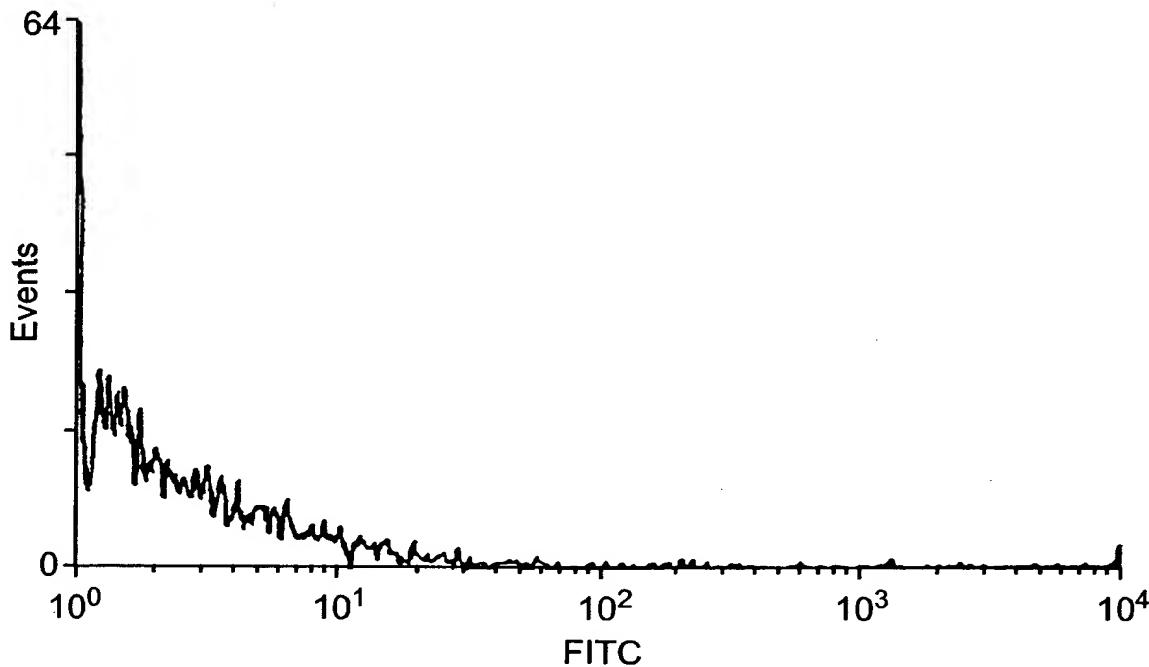


FIG. 22B

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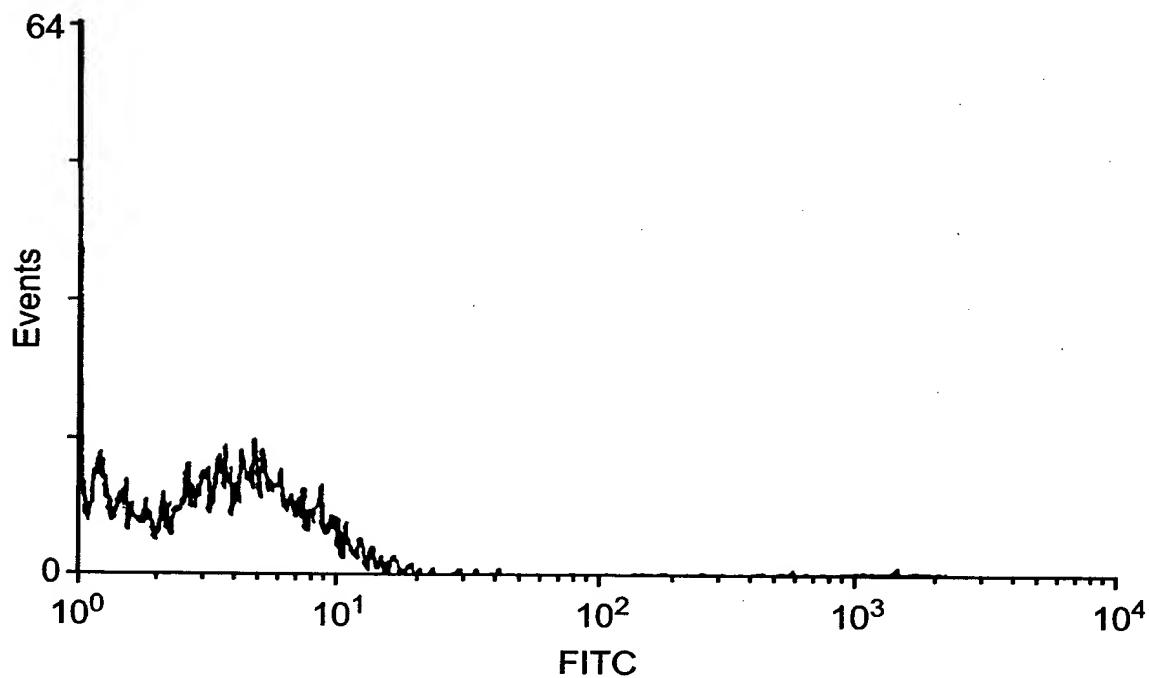


FIG. 22C

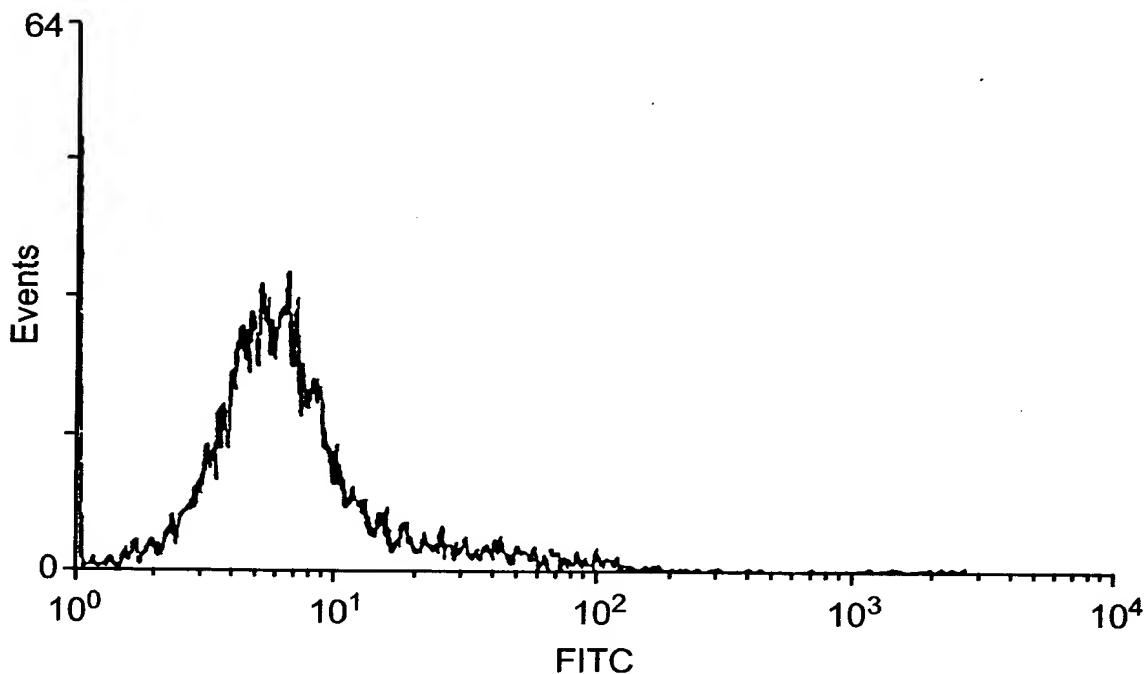


FIG. 22D

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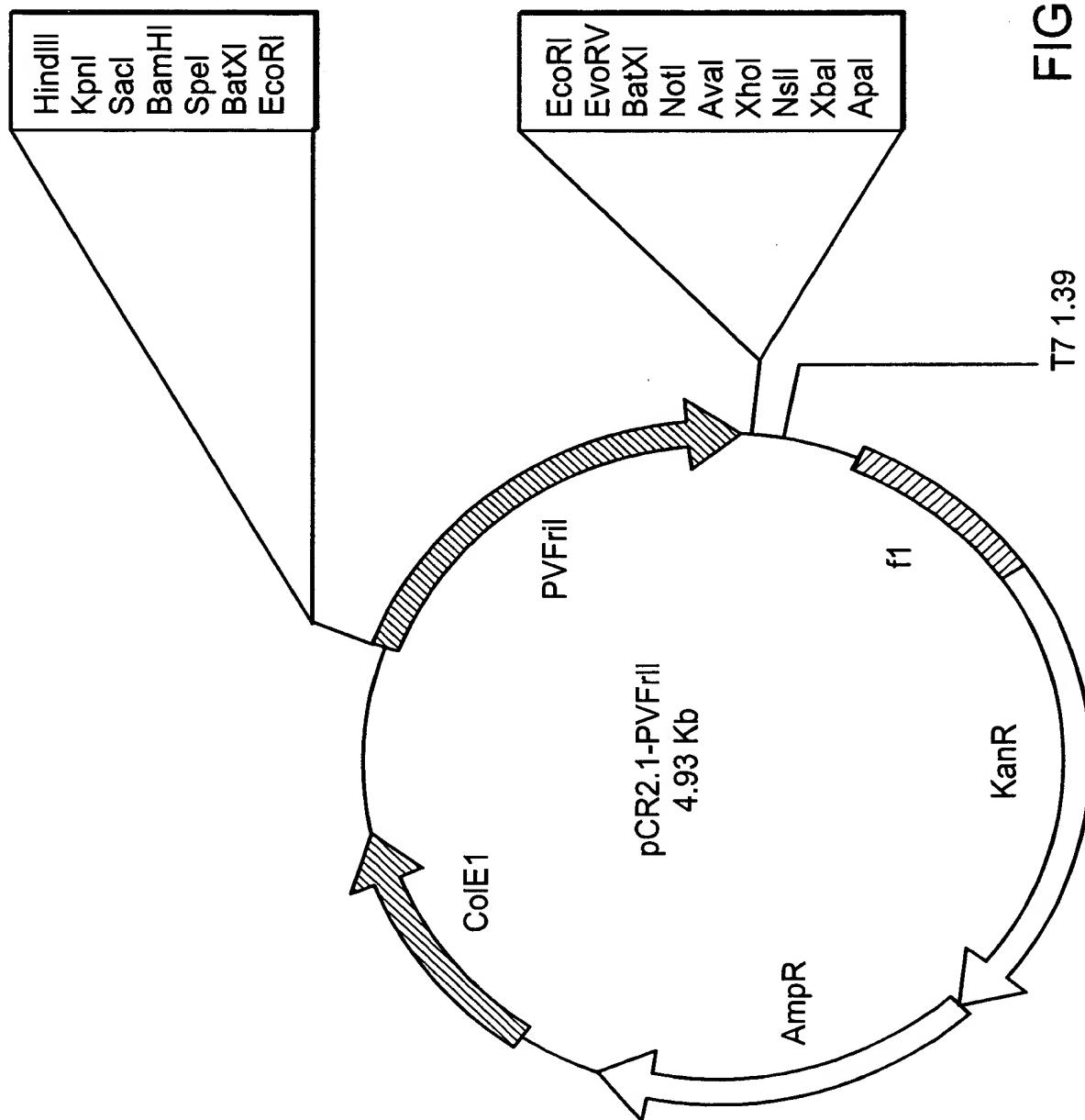
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FIG. 24A





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FIG. 24B

DLL	1	A Q S I S F S E F T K E D P N Q E D L I F Q G T A T S - - -	26
PvFRIL		A Q S I S F S E F T K E D P N Q E D L I F Q G T A T S - - -	29
PHA-E		A S Q T S F S E F T K E D P N Q E D L I F Q G T A T S - - -	28
DLL	27	V T Q E T K L D S A G N P V S S A G R V L Y S A P L R E W	51
PvFRIL	29	Q L R L T N V N D N G E P T L S S V G R V I F S A P F H L W	59
PHA-E		ED S A V L T S F D P - - - T I Y I F T N Y T S R I A D G L	58
DLL	52	E N S M A V S S F E T N - L T I Q I F T N Y T S R I A D G L	78
PvFRIL	60	D N T T G A V A A S P T S F T N I D V P N N S G P A D G L	88
PHA-E	59	A F I A P P - D S V I S Y H - - G G F L G L F P N A A E S G	88
DLL	79	A F I E A P H D T V I P P N S W G R E L G L Y S N V F R N S	105
PvFRIL	89	A F V E L P V G S Q P K D K - - G G I L G L F N N Y K Y D S	118
PHA-E	89	I A E S N - - - - - V V A V E F D T D Y I L N P D	116
DLL	106	P T S E N Q S F G D V N T D S R V V A V E F D T - - F P N A	124
PvFRIL	119	N A H - - - - - T V A V E F D T - - - I Y N V	146
PHA-E	117	Y G D P N Y I H I G I D V N S T R S K V T A S W D W Q N G K	131
DLL	125	N I D P N Y R H I G I D V N S T R S K V T A S W D W Q N G K	154
PvFRIL	147	H W D P K P R H I G I D V N S T R S K V T A S W D W Q N G K	176
PHA-E	132	I A T A H I S Y N S V I S K R I S V T I Y P G R G K - P A T	161
DLL	156	I A T A R I S Y N S V I S K R I S V T I Y P G M E V - V A L	183
PvFRIL	177	N A E V I L T Y D S S T K L I V A S L V Y P S I K T S F I V	205
PHA-E	162	S Y D I E L H T V L P E W V R V G L S A S T G Q - - - N I E	191
DLL	184	S H D V D L H A E L P E W V R V G L S A S T G E - - - E K O	210
PvFRIL	206	S D T V D L K S V L P E W V T V G F T A T G I T K G N V E	232
PHA-E	192	R N T V H S W S E T S S L W T N V A K V G - - - V A S I	221
DLL	211	K N T I I S W S E T S S L K N N E V K E P K E D M Y V A N V	235
PvFRIL	233	T N D I I S W S E A S K L S D G T T S E A L N - - - L A N F	262
PHA-E	222	S G - - - - - V R S Y T W I N D V L S Y I S N K	248
DLL	236	237	
PvFRIL	263	239	
PHA-E	249	254	



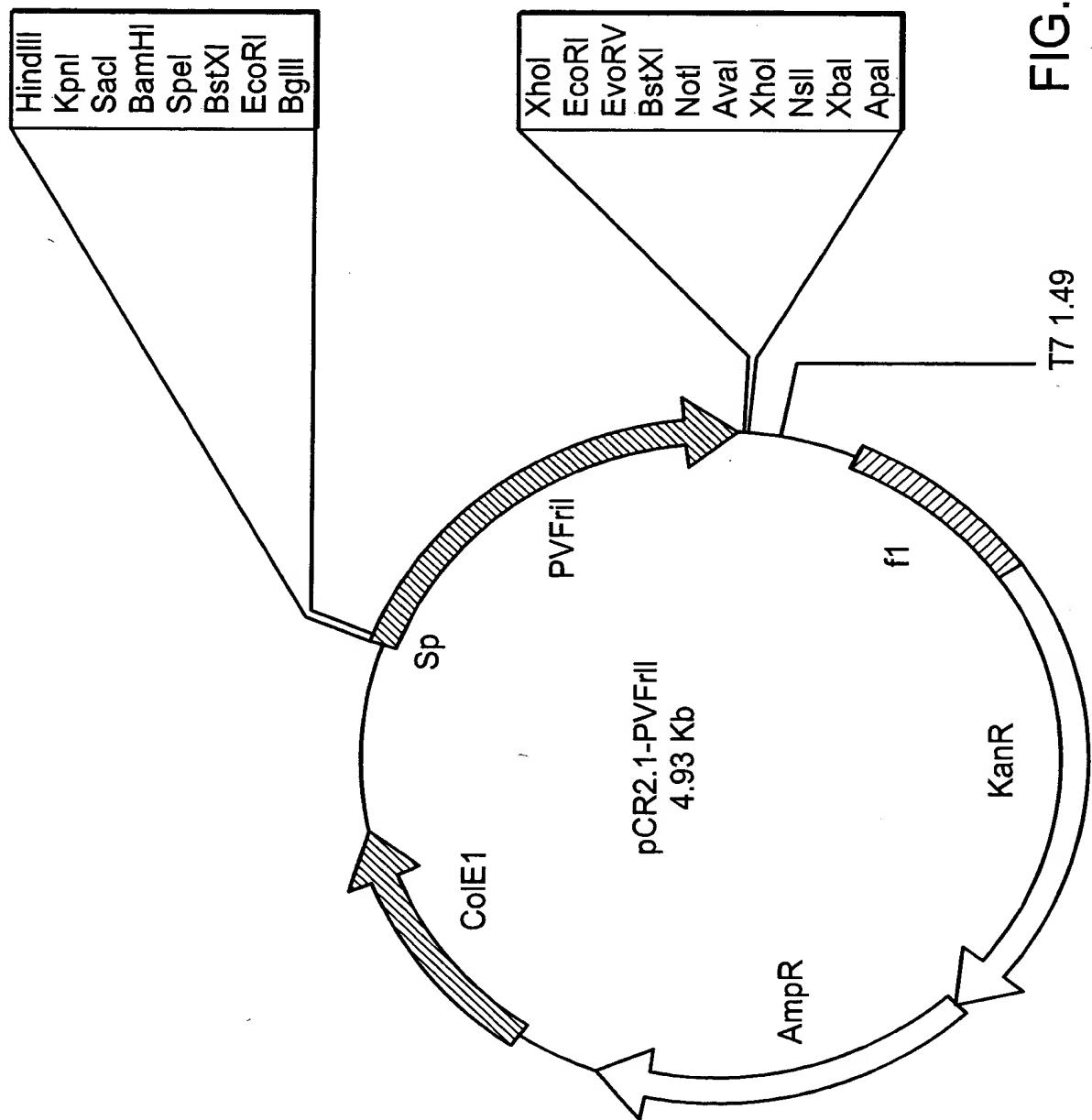
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FIG. 25

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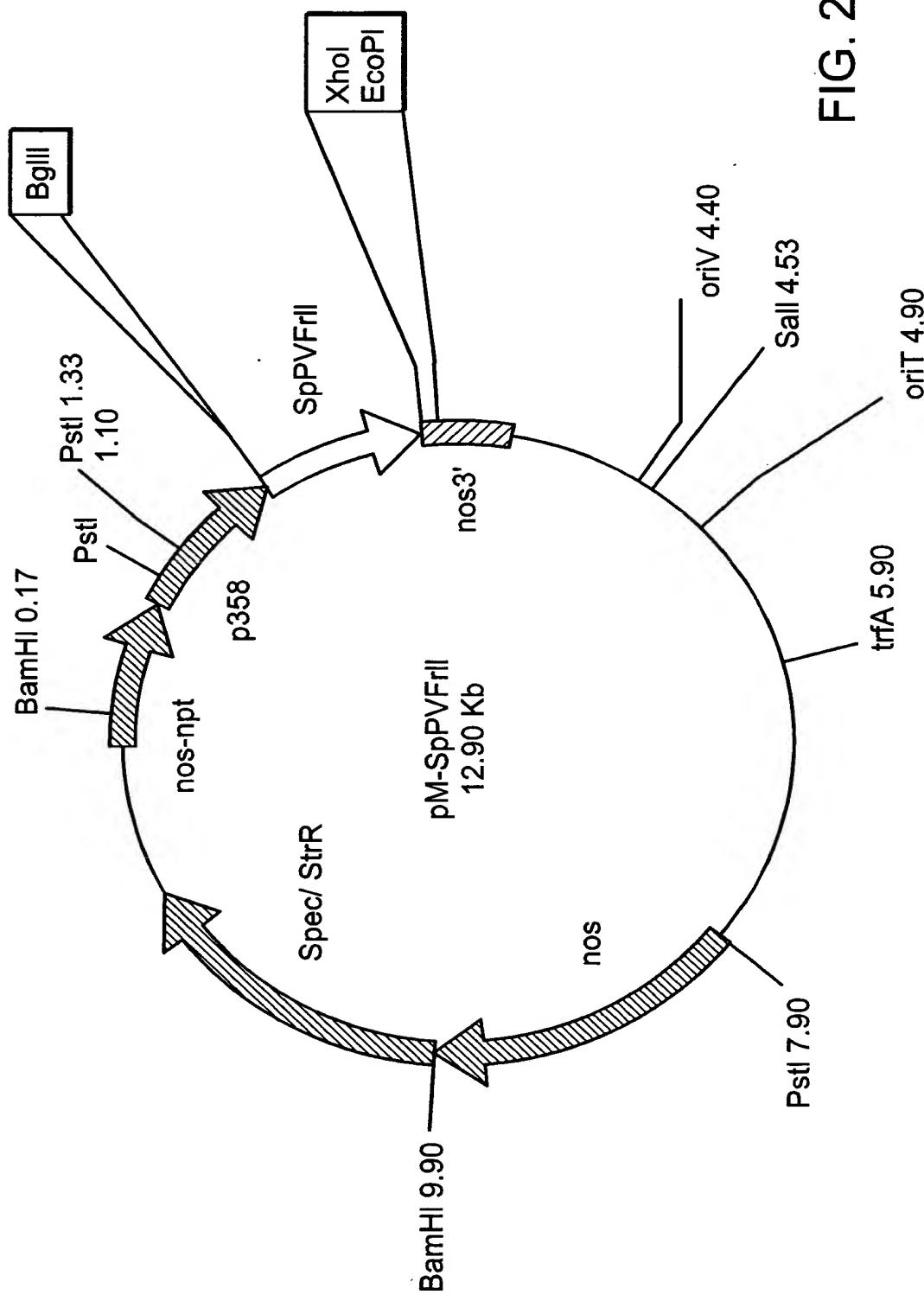
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FIG. 26





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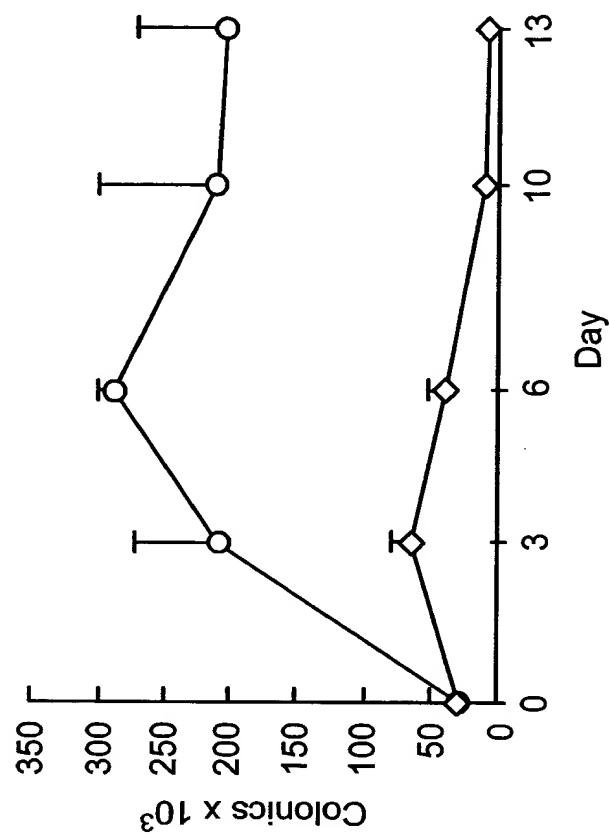


FIG. 27B

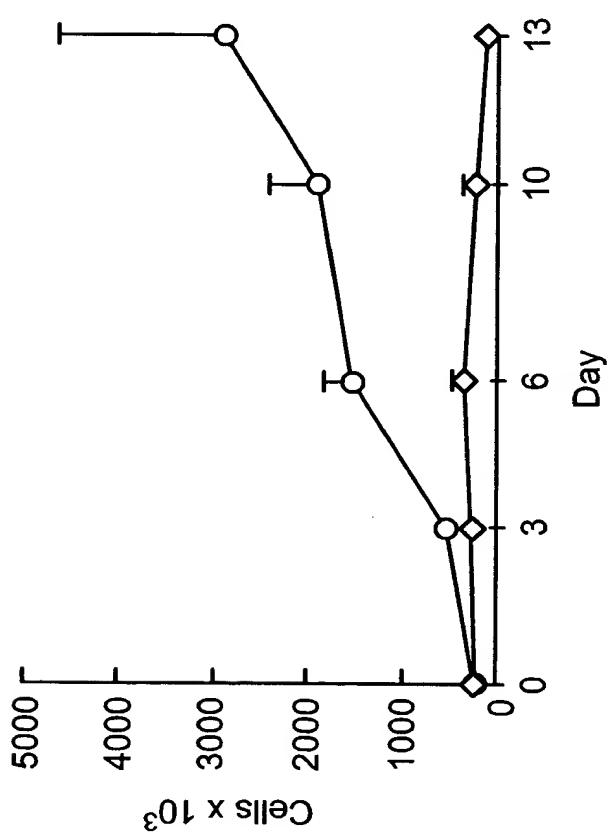


FIG. 27A

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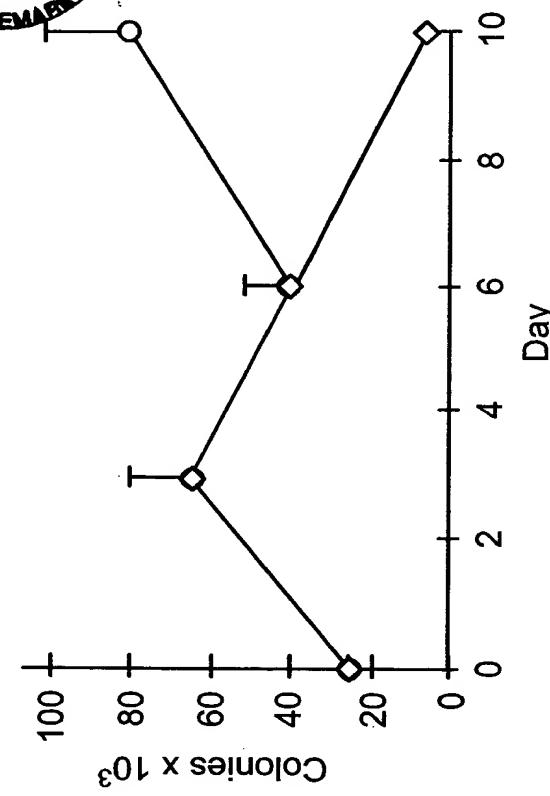


FIG. 28A

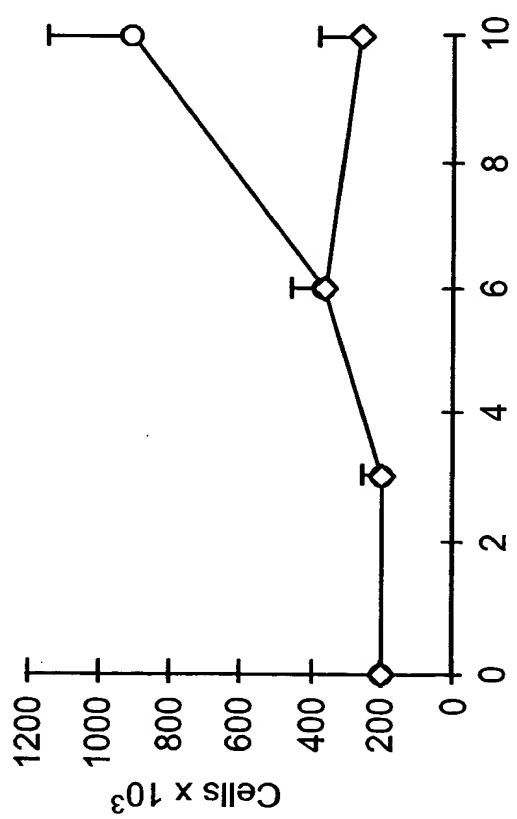


FIG. 28B

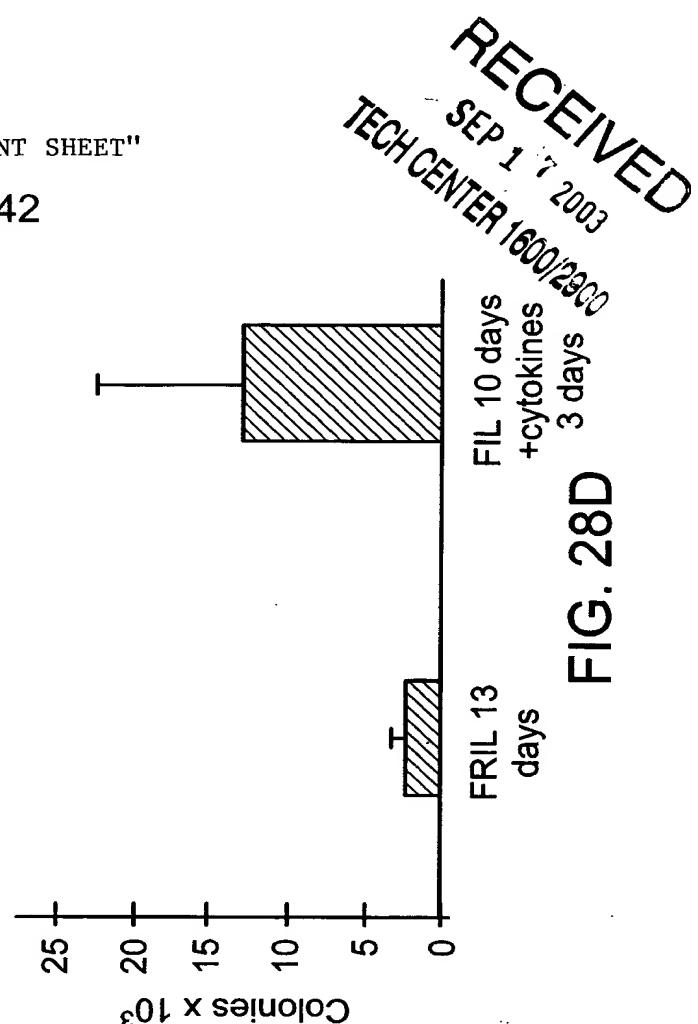


FIG. 28D

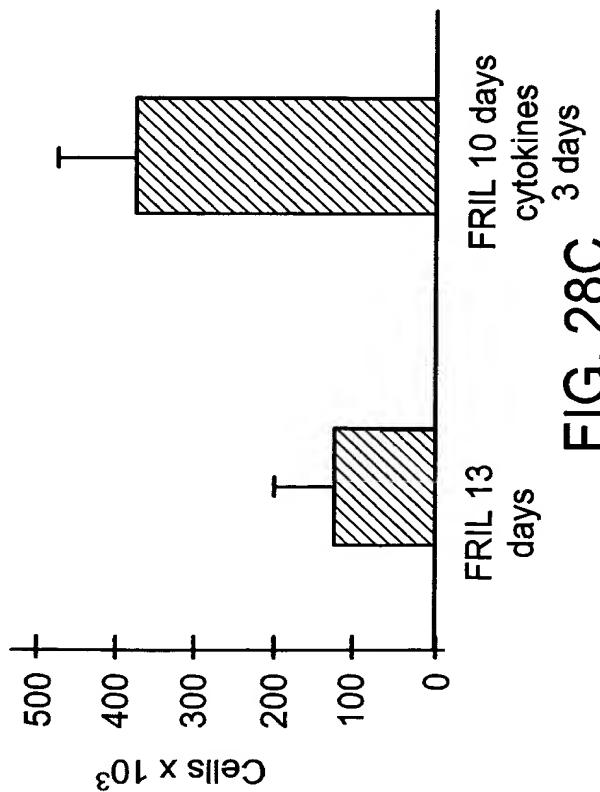


FIG. 28C

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human/mouse
DNA mix. (%)

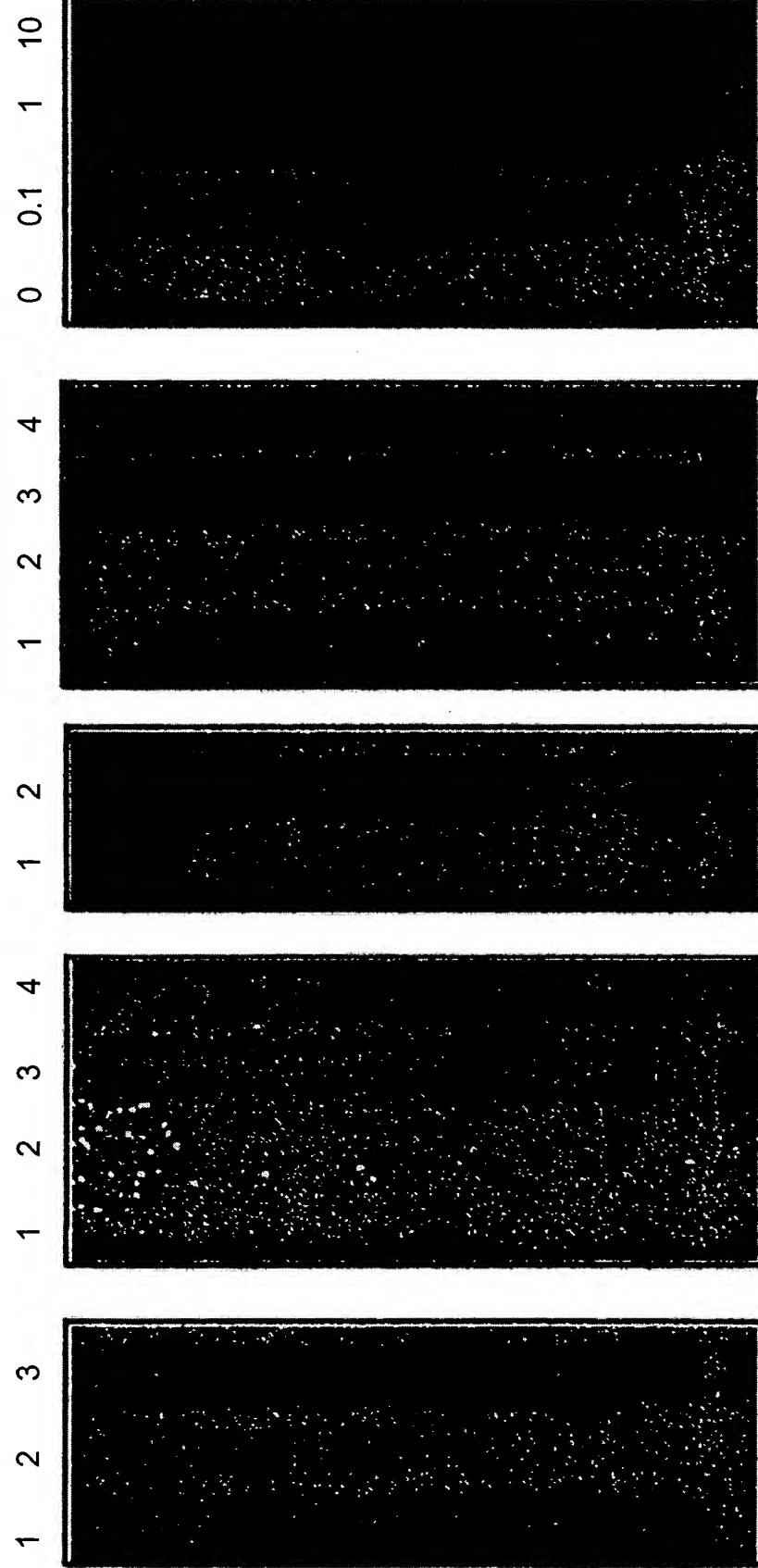


FIG. 29A

FIG. 29C

FIG. 29D

FIG. 29E

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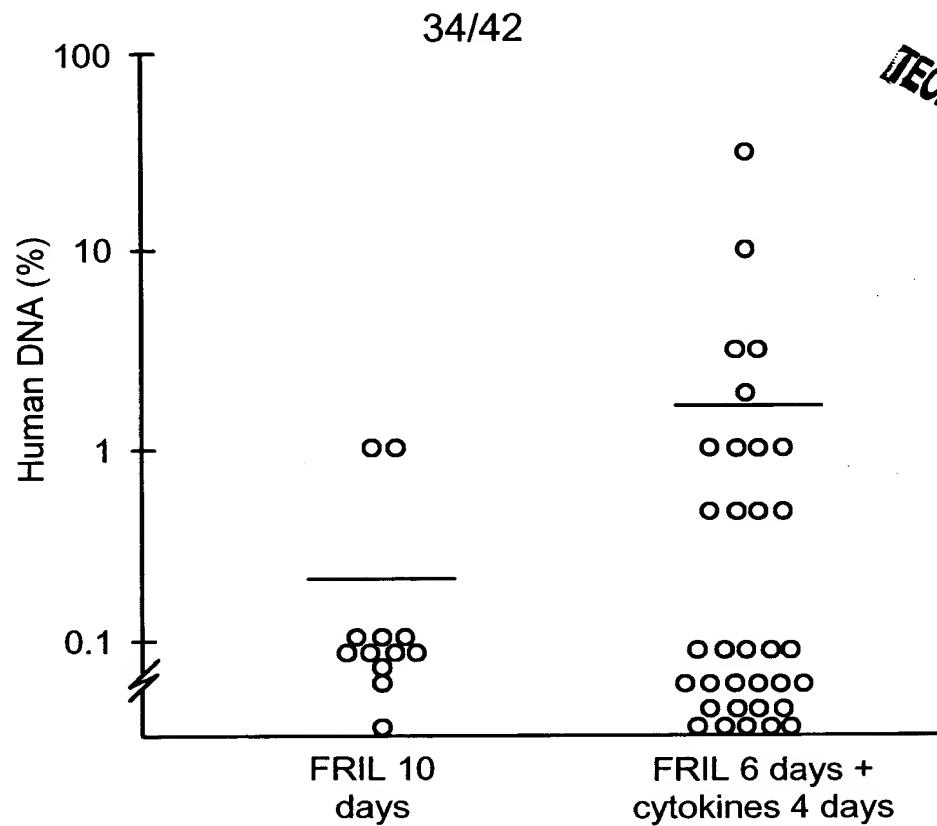


FIG. 30

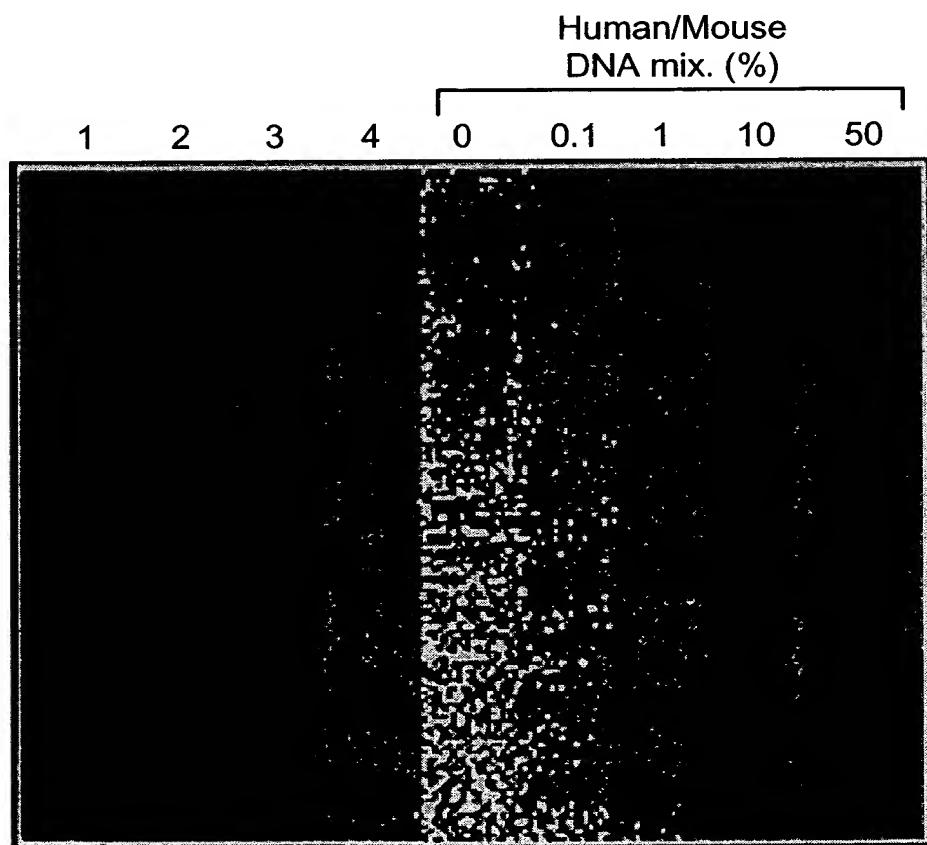


FIG. 31

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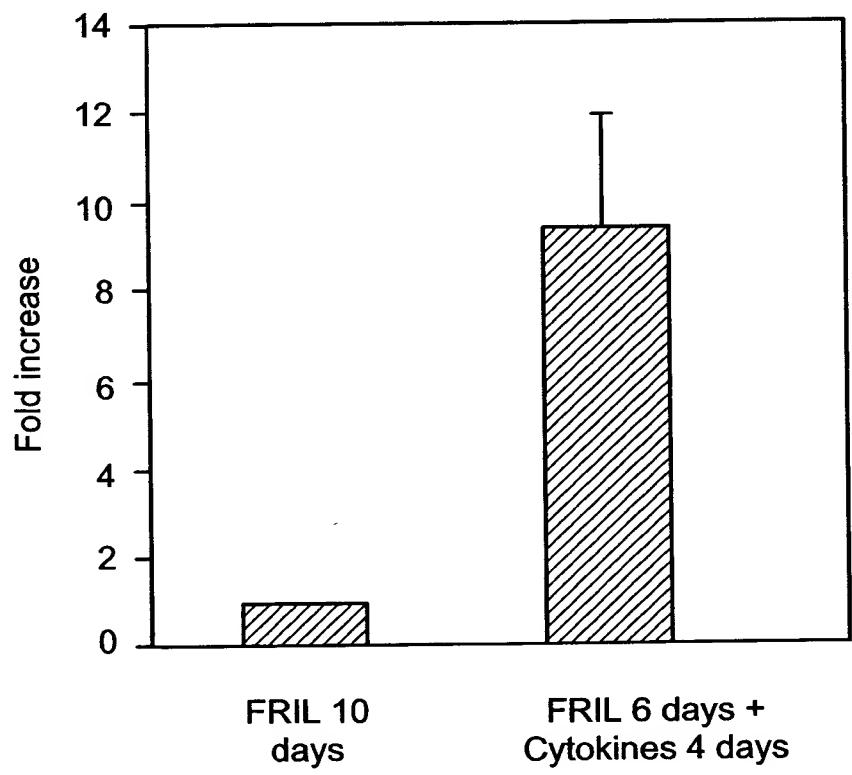


FIG. 32

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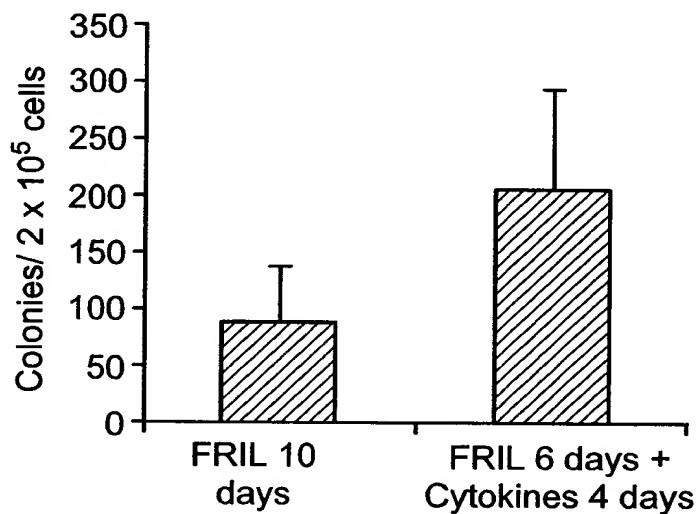


FIG. 33A

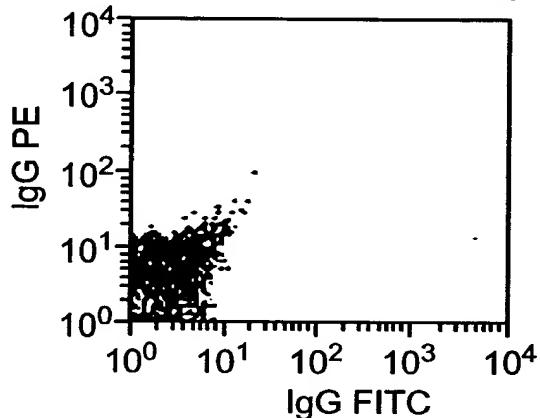


FIG. 33B

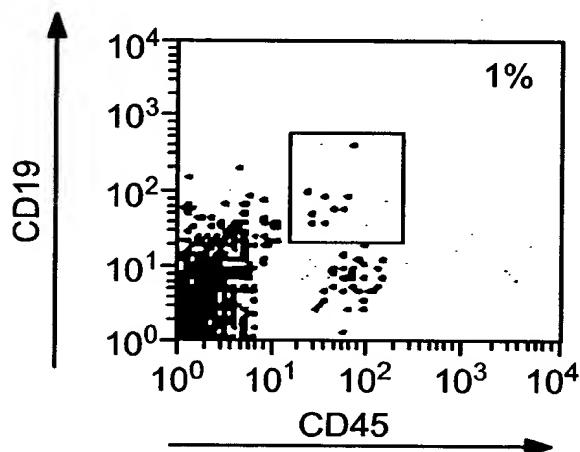


FIG. 33C

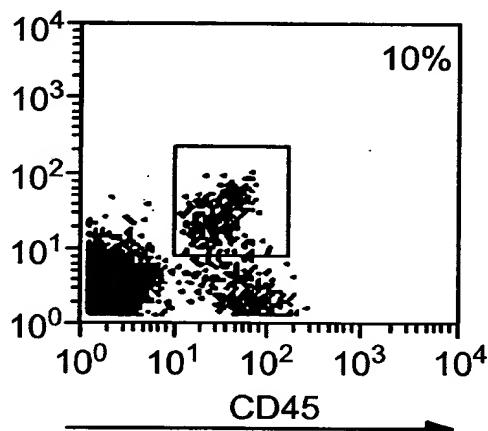


FIG. 33D

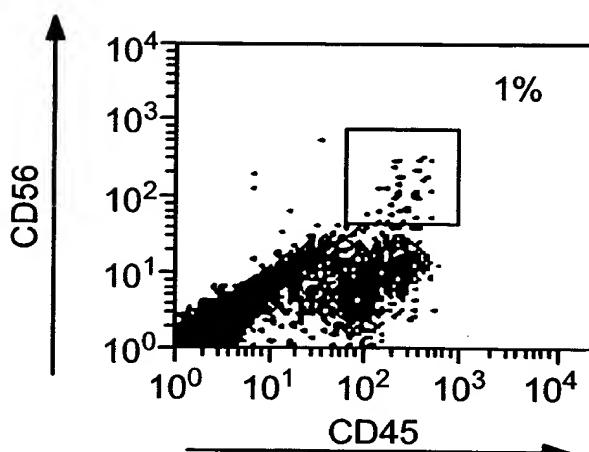


FIG. 33E

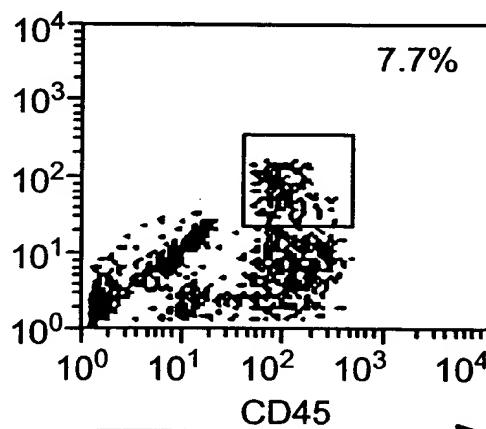


FIG. 33F



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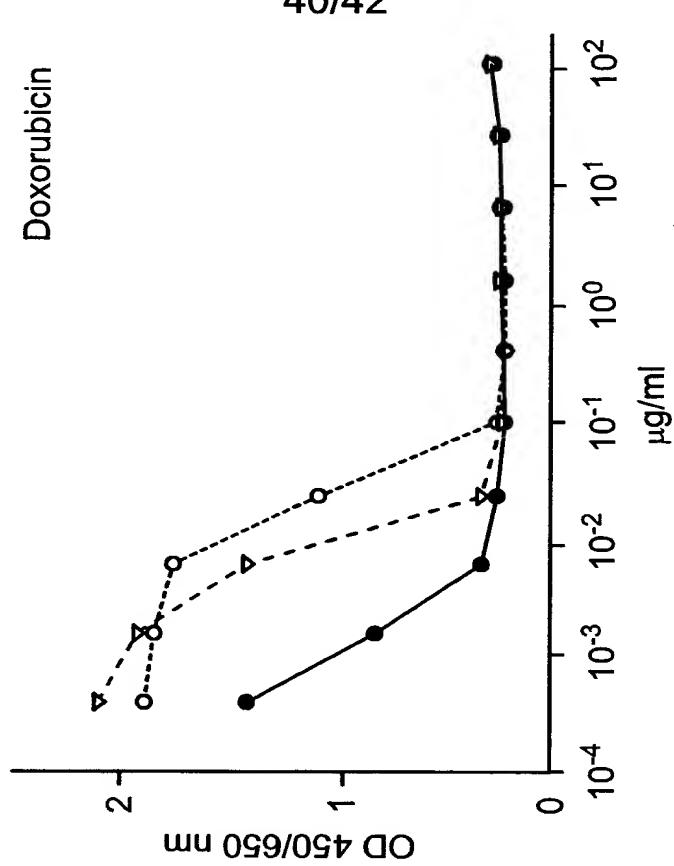


FIG. 36B

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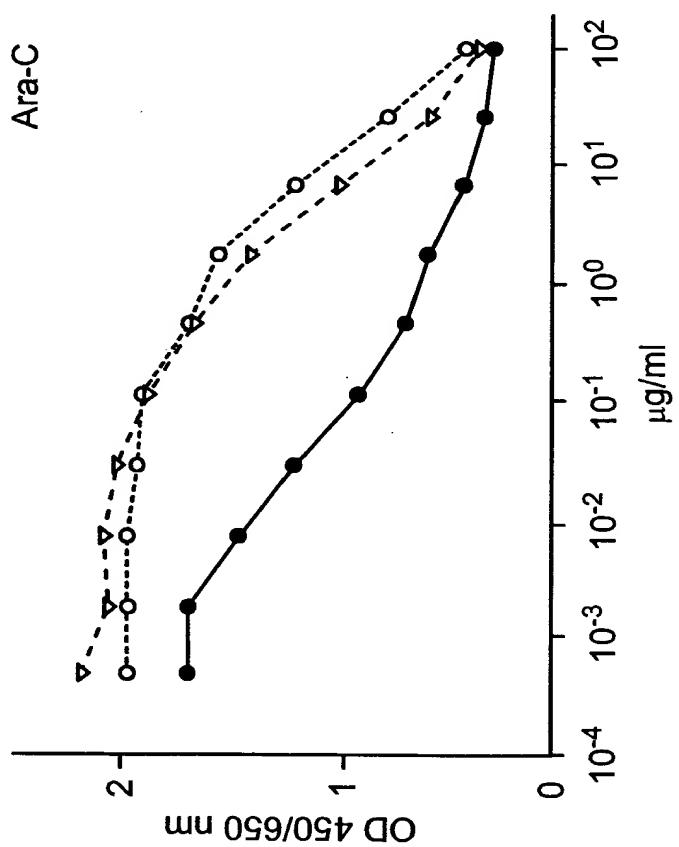


FIG. 36A

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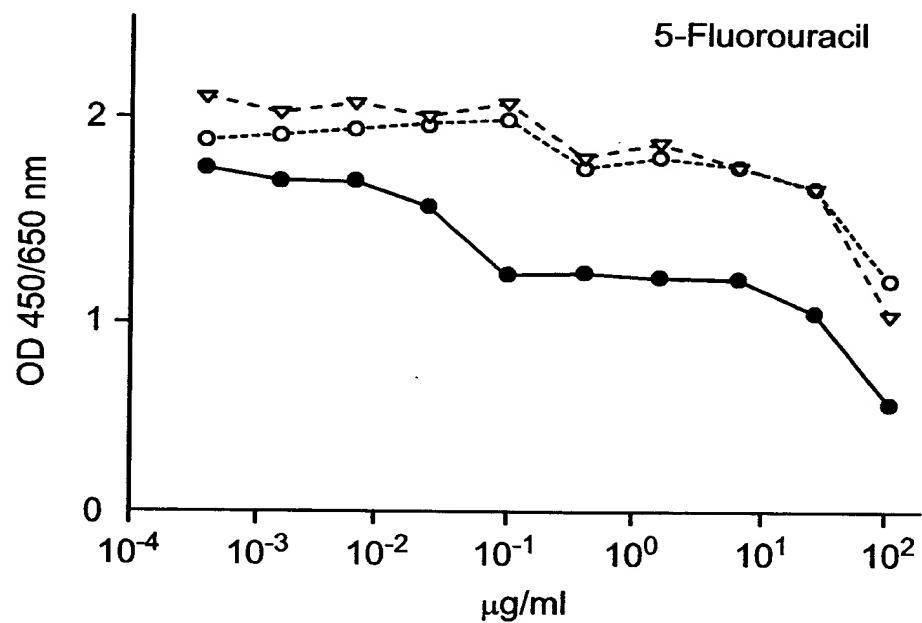


FIG. 36C